ABSTRACT

Methods and systems are described that permit efficient processing of userdefined multi-media editing projects that combine multiple different source data
streams into a single compressed data stream that represents the project. The
described approaches are directed to ensuring that those compressed source data
stream portions that need to be uncompressed for processing are uncompressed
and processed, while those compressed source data stream portions that do not
need to be uncompressed are not uncompressed. In one embodiment, a unique
switch assembly is provided comprising one or more switches each of which being
configured to process data streams. The switch assembly is configured to process
both compressed and uncompressed data streams to provide the single compressed
output data stream. In one embodiment, three software-implemented switches are
provided—one for handling uncompressed source data streams, one for handling
compressed source data streams, and one for processing the output of the first two
switches to provide the single compressed data stream.